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<10> Nelsestuen, Gary L.

<120> MODIFIED VITAMIN K-DEPENDENT POLYPEPTIDES

<130> 09531-016002

<140> US 10/031,005

<141> 2001-10-29

<150> PCT/US00/11416

<151> 2000-04-28

<150> US 09/302,239

<151> 1999-04-29

<150> US 08/955,636

<151> 1997-10-23

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<212> PRT

<213> Homo sapiens

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<222> (1)...(44)

<223> Xaa = gamma carboxyglutamic acid or glutamic acid

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Ala Asn Ser Phe Leu Xaa Xaa Leu Arg His Ser Ser Leu Xaa Arg Xaa

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5

10

15

Cys Ile Xaa Xaa Ile Cys Asp Phe Xaa Xaa Ala Lys Xaa Ile Phe Gln

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25

30

Asn Val Asp Asp Thr Leu Ala Phe Trp Ser Lys His

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<212> PRT

<213> Bos taurus

<220>

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<223> Xaa = gamma carboxyglutamic acid or glutamic acid

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Ala Asn Ser Phe Leu Xaa Xaa Leu Arg Pro Gly Asn Val Xaa Arg Xaa

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5

10

15

Cys Ser Xaa Xaa Val Cys Xaa Phe Xaa Xaa Ala Arg Xaa Ile Phe Gln

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Cys Lys Xaa Xaa Gln Cys Ser Phe Xaa Xaa Ala Arg Xaa Ile Phe Lys			
20	25	30	
Asp Ala Xaa Arg Thr Lys Leu Phe Trp Ile Ser Tyr			
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Cys Arg Xaa Xaa Leu Cys Ser Phe Xaa Xaa Ala His Xaa Ile Phe Arg			
20	25	30	
Asn Xaa Xaa Arg Thr Arg Gln Phe Trp Val Ser Tyr			
35	40		

<210> 5
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Xaa Cys Met Xaa Xaa Lys Cys Ser Phe Xaa Xaa Ala Arg Xaa Val Phe			
20	25	30	
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Xaa Cys Met Xaa Xaa Lys Cys Ser Phe Xaa Xaa Ala Arg Xaa Val Phe
20 25 30
Xaa Asn Thr Xaa Lys Arg Thr Thr Xaa Phe Trp Lys Gln Tyr
35 40 45

<210> 7
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<212> DNA
<213> Artificial Sequence

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<400> 7
aaatataac gactcactat agggagaccc aagctt 36

<210> 8
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<210> 9
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Xaa Ser Leu Ser Ala Thr Asp Ala Phe Trp Ala Lys Tyr
35 40 45

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20 25 30
Asp Ala Xaa Gln Thr Asp Xaa Phe Trp Ser Lys Tyr
35 40

<210> 19
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<212> PRT
<213> Homo sapiens

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<221> MOD_RES
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<223> Xaa = carboxyglutamic acid or glutamic acid

<400> 19
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Cys Ile Xaa Xaa Leu Cys Asn Lys Xaa Xaa Ala Arg Xaa Val Phe Xaa
 20          25          30
Asn Asp Pro Xaa Thr Asp Tyr Phe Tyr Pro Lys Tyr
 35          40

<210> 20
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 1           5           10           15
Xaa Cys Tyr Xaa Xaa Ile Cys Val Tyr Xaa Xaa Ala Arg Xaa Val Phe
 20          25          30
Xaa Asn Xaa Val Val Thr Asp Xaa Phe Trp Arg Arg Tyr
 35          40          45

<210> 21
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Ala Gly Ser Tyr Leu Leu Xaa Xaa Leu Phe Xaa Gly His Leu Xaa Lys
 1           5           10           15
Lys Cys Trp Xaa Xaa Ile Cys Val Tyr Xaa Xaa Ala Arg Xaa Val Phe
 20          25          30
Xaa Asp Asp Xaa Thr Thr Asp Xaa Phe Trp Arg Thr Tyr
 35          40          45

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